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Applicant: Jerry L. Losee

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Title: MULTI SHOP SOCKET TOOL

Examiner: Willie Berry

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SUMMARY OF THE INVENTION

This invention is directed to ratchet and impact socket tools which are used to tighten and loosen nuts, bolts and lug nuts. The newly invented sockets are built with two to three sizes in one end that will eliminate a lot of frustrations of searching for the socket size in need. It also makes a great space-saving, easy-to-carry socket set. With this socket you can easily tighten or loosen three or more different sizes of bolts or nuts without the costly time of searching and changing sockets for every size.

The invention is a socket wrench consisting of different hexagon-shaped tools fitted or nested in such a way so they can move inside of one another being biased by springs and retained (pins.) rivets. Each hexagon tool is pressured by its own individual compression spring. The hexagon tool has small (roll pin) rivet holes and slots

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that allows movement back and forth with the help of (roll pins) rivets restricting movement too far one way or the other and keeping the multiple socket tool in complete working form.

DETAILED DESCRIPTION OF THE INVENTION

A perspective view of a large three-sized multi socket is illustrated in Figure 1. Referring to Figure 2, small (roll pin) rivet 1 fits tightly into hole 2 which also extends down through slot 7 that allows the middle hexagon tool 8 to slide back and forth inside of the outer socket 3. The large compression spring 5 is fitted behind the outer hexagon tool 8 that is nested inside socket 3 that keeps pressure applies to the outer hexagon tool 8. Small compression spring 6 is smaller than spring 5 but its purpose is the same except that it pushes on the inner hexagon tool 11. (Roll pin) Rivet 10 fits tightly into hole 9, which extends into slot 12 and allows the outer hexagon tool 11 to move back and forth inside of middle hexagon tool 8. The square drive aperture 4 is for the application of an air gun or ratchet wrench device.

Figure 3 is a smaller two-sized multiple socket tool with only one compression spring 16 and one hexagon tool.

Figure 3 illustrates a hardened metal multiple socket tool 13 which is used for tightening or loosening various sizes of nuts and bolts. The multiple sockets can be attached on an impact gun, ratchet wrench or any other socket attachment tool by inserting the attachment into aperture 19. As described above, (roll pin) rivet 14 fits in aperture 15 and engages slot 18.